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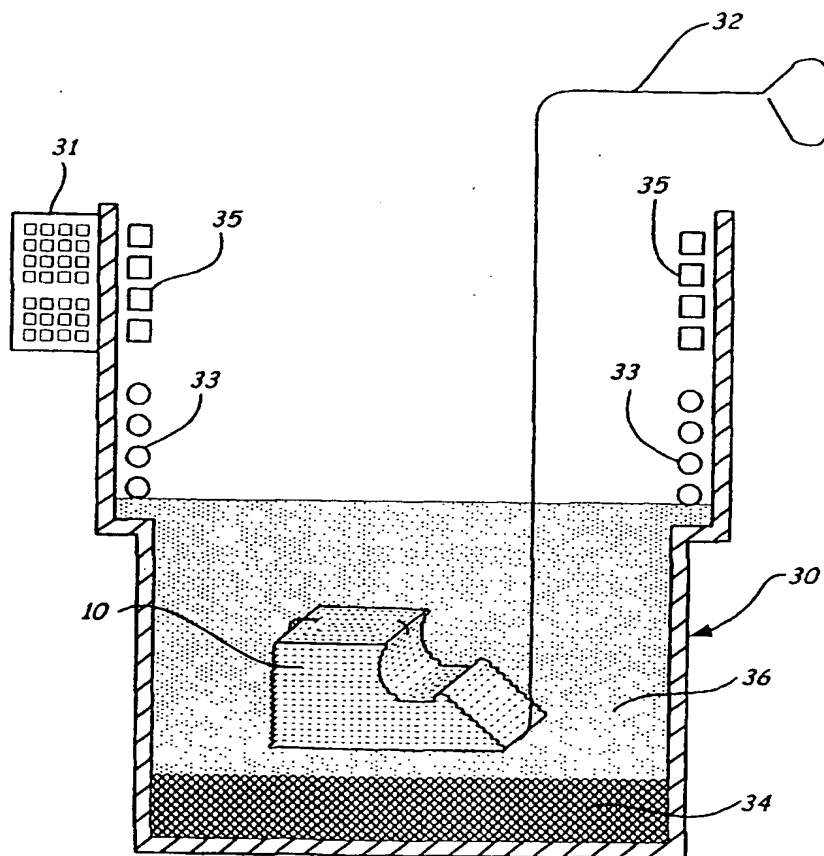
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(71) Applicants and

(72) Inventors (for US only): **PRIEDEMAN, JR., William,**

(54) Title: SMOOTHING METHOD FOR LAYERED DEPOSITION MODELING ✓



(57) Abstract: Disclosed is a method for smoothing the surface of an object built from a polymeric or wax material using a layered manufacturing rapid prototyping technique. After the object is built it is exposed to a vaporized solvent such as in a vaporizer for an exposure time sufficient to reflow the object surface. A solvent is chosen based on its ability to transiently soften the material which forms the object, and thereafter evaporate off the object. The object is removed from the solvent and allowed to dry, producing a smooth finished part.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B29C 41/02, 71/00, 71/02; G06F 17/50, 19/00
US CL : 264/232, 234, 308; 700/119

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 264/232, 234, 308; 700/119

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,143,663 A(LEYDEN et al) 01 September 1992 (01.09.1992), column 10, line 40 to column 11, line 44.	1, 3-6, 21-25

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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